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What is claimed is:

1. A disc type eccentric rotor having two or more air-core coils and generating a difference in centrifugal forces by the rotation of the rotor itself, the rotor comprising:

a flat type commutator member having a shaft insertion through hole in the center thereof;

a plurality of commutator land segments formed around the shaft insertion through hole on a first side of the flat type commutator member;

wound type air-core coil arrangement guides formed outside the shaft insertion through hole on a second side of the flat type commutator member;

air-core coil end portion connection lands formed circumferentially on the second side of the flat type commutator member;

a shaft holder installed around the shaft insertion through hole on the second side of the flat type commutator member; and

wound type air-core coils installed at the wound type air-core coil arrangement guides and having the end portions thereof connected to the air-core coil end portion connection lands.

- 2. The rotor as claimed in claim 1, wherein the air-core coils are radially arranged at a predetermined angle and at least one air-core coil is formed as a printed wiring type air-core coil.
- 3. The rotor as claimed in claim 2, wherein the air-core coils comprise one printed wiring type air-core coil and two wound type air-core coils, and the air-core coils are arranged so as not to overlap one another.
- 4. The rotor as claimed in claim 2, wherein the air-core coils comprise two printed wiring type air-core coils and one wound type air-core coil, and the air-core coils are arranged so as not to overlap one another.
- 5. The rotor as claimed in claim 1, wherein wound type air-core coil arrangement guide apertures and reinforcement holes are formed on the printed wiring type commutator member, and the reinforcement holes and the wound type

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air-core coil arrangement guide apertures are respectively connected through grooves.

- 6. The rotor as claimed in claim 4, wherein the shaft holder and the wound type air-core coil arrangement guides are integrally formed of the same resin by outsert molding on the flat type commutator member.
- 7. A disc type eccentric rotor having one or more wound type air-core coils and generating a difference in centrifugal forces by the rotation of the rotor itself, the rotor comprising:

a flat type commutator member having a shaft insertion through hole in the center thereof;

a plurality of commutator land segments formed around the shaft insertion through hole on a first side of the flat type commutator member;

a shaft holder installed around the shaft insertion through hole on a second side of the flat type commutator member;

wound type air-core coil end portion connection lands formed circumferentially on the second side of the flat type commutator member;

at least one wound type air-core coil installed outside the shaft holder on the second side of the flat type commutator member, and having the end portions thereof connected to the wound type air-core coil end portion connection lands; and

an eccentric weight formed of tungsten alloy to be installed within the thickness of the wound type air-core coil on the second side of the flat type commutator member, the weight fixed to the flat type commutator member by means of resin.

- 8. The rotor as claimed in claim 7, wherein at least one printed wiring type coil is formed at a position of the flat type commutator member where the eccentric weight is installed.
 - 9. A flat type vibrator motor comprising:

a disc type eccentric rotor having at least one air-core coil and generating a difference in centrifugal forces by the rotation of the rotor itself;

a shaft for supporting the eccentric rotor;

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a magnet for providing a magnetic field for the rotor via a gap therebetween in an axial direction;

a brush arranged inside the magnet for providing electric power to the air-core coil through the flat type commutator member, and

a housing accommodating all the above elements.

10. The vibrator motor as claimed in claim 9, wherein the shaft is fixed at one side of the housing and a member for preventing the eccentric rotor from moving in a radial direction is installed at the other side of the housing.

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